

Appendix 2. Algorithm used to assign probability that infection had occurred

$p = \exp(\alpha + \beta_1 x_1 + \dots + \beta_n x_n) / (1 + \exp(\alpha + \beta_1 x_1 + \dots + \beta_9 x_9))$, where

$\alpha = -5.16$

$\beta_1 = +3.03$

x_1 = dispensing any of five selected antibiotics

$\beta_2 = +6.06$

x_2 = any selected diagnosis in hospital

$\beta_3 = +1.05$

x_3 = any selected diagnosis in emergency dept (if $x_2 = 0$)

$\beta_4 = +2.98$

x_4 = any selected diagnosis in outpatient setting

$\beta_5 = +2.91$

x_5 = selected bacterial culture

$\beta_6 = +1.91$

x_6 = wound care

$\beta_7 = -1.79$

x_7 = interaction of x_4 and x_6

$\beta_8 = -2.70$

x_8 = interaction of x_4 and x_2

$\beta_9 = -2.21$

x_9 = interaction of x_4 and x_5